

Data Analysis and Probability  
Lesson 31: Odds and Probability  
Math for Standards

Name \_\_\_\_\_

Date \_\_\_\_\_

*EQ: How do you calculate odds in favor or against and compare it to probability?*

Odds can be \_\_\_\_\_ an event or \_\_\_\_\_ an event.

Odds in favor of an event is given by:

Odds against an event is given by:

In both cases, the sum of the numerator and denominator will be the \_\_\_\_\_  
\_\_\_\_\_.

You will want to leave your answers as \_\_\_\_\_.

Example 1: Name the odds in favor of the event. You have a spinner numbered 1-8.

a. What are the odds of not spinning a 3?

b. What are the odds of landing on a number greater than 2?

c. What are the odds of spinning a 4?

Example 2: Name the odds against the event.

a. Picking a red marble from a bag containing 20 white marbles and 1 red.

b. Picking a king from a standard deck of 52 cards.

c. Rolling at least one six on a pair of dice.